

### Abstract of the Disclosure

Provided are a probes design system and method using heterogeneous genetic information. A storage unit stores a crosslink map having records according to the version of a genome sequence present the outside of the design system. An information search unit searches for the identifier and sequence information corresponding to target genetic information among the genetic information about the genome sequence in the crosslink map. A location estimation unit determines a reference group made up of reference genetic information which is contained in more than a predetermined number in an organism, calculates difference values of the start positions and the end positions of the reference genetic information based on the crosslink map, and determines the location of the target genetic information on the latest genome sequence by a location shift corresponding to the difference values.